

This listing of claims will replace all prior versions, and listings, of claims in the application (Amendments **highlighted in bold**, language to be added underlined, language to be deleted ~~stricken through~~.)

1. (currently amended) A compound represented by the structural formula



or a pharmaceutically acceptable salt ~~or solvate~~ thereof, wherein:

X is N;

Z is  $\mathbb{NR}^8$ ;

D is independently H, -OH, -alkyl or substituted -alkyl with the proviso that when X is N, D and the X-D bond are absent:

E is independently H, -alkyl or substituted -alkyl, or D and E can independently be joined together via a  $-(CH_2)_p-$  bridge;

Q is independently H, -alkyl or substituted -alkyl, or D, X, Q and the carbon to which Q is attached can jointly form a 3 to 7-membered ring;

$g, j, k, m$  and  $n$  can be the same or different and are independently selected:

g is 0;

j and k are independently 0 to 3 such that the sum of j and k is 0, 1, 2 or 3:

m and n are independently 0 to 3 such that the sum of m and n is 1, 2, 3, 4 or

5;

p is 1 to 3;

R<sup>1</sup> is 1 to 5 substituents which can be the same or different, each R<sup>1</sup> being independently selected from the group consisting of hydrogen, hydroxy, halogen, haloalkyl, -alkyl, substituted -alkyl, -cycloalkyl, CN, alkoxy, cycloalkoxy, alkylthio, cycloalkylthio, -NR<sup>5</sup>R<sup>6</sup>, -NO<sub>2</sub>, -CONR<sup>5</sup>R<sup>6</sup>, -NR<sup>5</sup>COR<sup>6</sup>, -NR<sup>5</sup>CONR<sup>5</sup>R<sup>6</sup> where the two R<sup>5</sup> moieties can be the same or different, -NR<sup>6</sup>C(O)OR<sup>7</sup>, -C(O)OR<sup>6</sup>, -SOR<sup>7</sup>, -SO<sub>2</sub>R<sup>7</sup>, -SO<sub>2</sub>NR<sup>5</sup>R<sup>6</sup>, aryl and heteroaryl;

$R^2$  is 1 to 6 substituents which can be the same or different, each  $R^2$  being independently selected from the group consisting of hydrogen, -alkyl, substituted -alkyl, alkoxy, and hydroxy, with the proviso that when X is N and  $R^2$  is hydroxy or alkoxy,  $R^2$  is not directly attached to a carbon adjacent to X;

$R^3$  is independently hydrogen, -alkyl or substituted -alkyl;

$R^4$  is 1 to 6 substituents which can be the same or different, each  $R^4$  being independently selected from hydrogen, -alkyl, substituted -alkyl, alkoxy, and hydroxy, with the proviso that when Z is  $NR^8$  and  $R^4$  is hydroxy or alkoxy,  $R^4$  is not directly attached to a carbon adjacent to the  $NR^8$ ;

$R^5$  and  $R^6$  are independently hydrogen, -alkyl, substituted -alkyl or -cycloalkyl;

$R^7$  is independently -alkyl, substituted -alkyl or -cycloalkyl;

$R^8$  is independently selected from the group consisting of hydrogen, -alkyl, substituted -alkyl, -cycloalkyl, -alkylcycloalkyl, aryl, heteroaryl, aralkyl, heteroaralkyl,  $-SO_2R^{10}$ ,  $-SO_2NR^5R^{11}$ ,  $-C(O)R^{11}$ ,  $-C(O)NR^5R^{11}$  and  $-C(O)OR^{10}$ ;

$R^9$  is independently hydrogen, -alkyl, substituted -alkyl, hydroxy, alkoxy,  $-NR^5R^{11}$ , aryl, or heteroaryl; or  $R^3$  and  $R^9$  can be joined together and with the carbon to which they are attached form a carbocyclic or heterocyclic ring having 3 to 7 ring atoms;

$R^{10}$  is -alkyl, substituted -alkyl, -cycloalkyl, -alkylcycloalkyl, aryl or heteroaryl; and

$R^{11}$  is independently hydrogen, -alkyl, substituted -alkyl, -cycloalkyl, aryl or heteroaryl.

2. (currently amended) The compound of claim 1 or a pharmaceutically acceptable salt ~~or solvate~~ thereof, wherein

$R^1$  is 1 to 5 substituents which can be the same or different, each  $R^1$  being independently selected from the group consisting of Cl, Br, I or F;

X is N;

D is absent and the X-D bond is absent;

E is H;

g is 0;

j is 1;

k is 1;

m is 2;

n is 2;

R<sup>2</sup> is H;

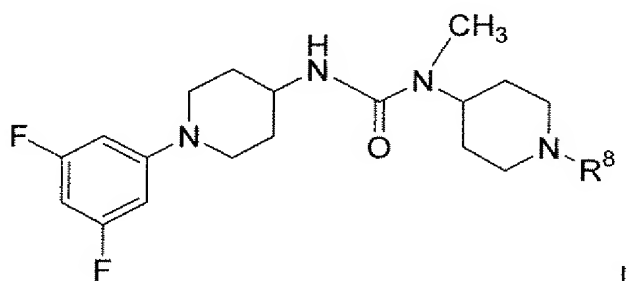
R<sup>3</sup> is methyl;

R<sup>4</sup> is H;



and

Z is NR<sup>8</sup>, where R<sup>8</sup> is independently selected from the group consisting of hydrogen, -alkyl, substituted -alkyl, -cycloalkyl, -alkylcycloalkyl, aryl, heteroaryl, aralkyl, heteroaralkyl, -SO<sub>2</sub>R<sup>10</sup>, -SO<sub>2</sub>NR<sup>5</sup>R<sup>11</sup>, -C(O)R<sup>11</sup>, -C(O)NR<sup>5</sup>R<sup>11</sup> and -C(O)OR<sup>10</sup>.

3. (currently amended) A compound represented by the structural formula

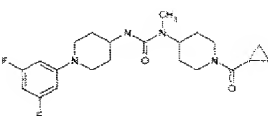
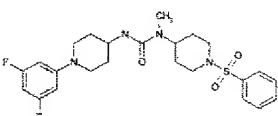
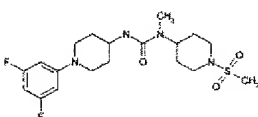
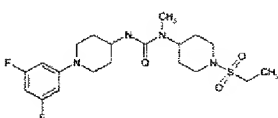
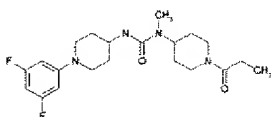
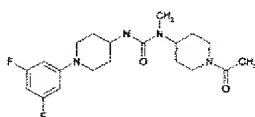
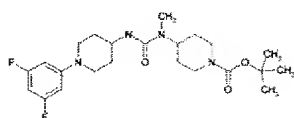


or a pharmaceutically acceptable salt ~~or solvate~~ thereof, wherein R<sup>8</sup> is defined in the following table:

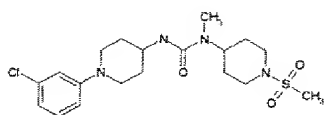
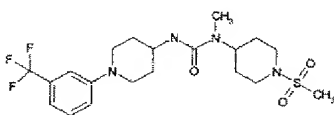
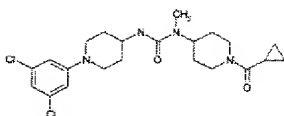
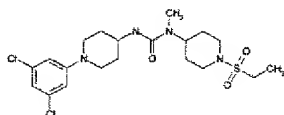
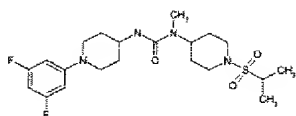
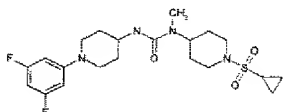
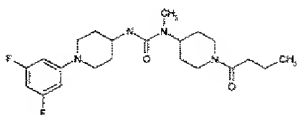
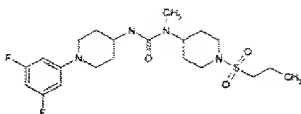
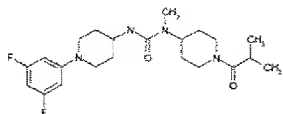
| R <sup>8</sup>   |
|--|
| -COCH <sub>3</sub>   |
| -COCH <sub>2</sub> CH <sub>3</sub>   |
| -CO-                |
| -COCH(CH <sub>3</sub> ) <sub>2</sub>   |
| -CO(CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub>   |
| -COOC(CH <sub>3</sub> ) <sub>3</sub>   |
| -SO <sub>2</sub> CH <sub>3</sub>   |
| SO <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>  |
| -SO <sub>2</sub> -  |
| -SO <sub>2</sub> CH(CH <sub>3</sub> ) <sub>2</sub>   |
| -SO <sub>2</sub> (CH <sub>2</sub> ) <sub>2</sub> CH <sub>3</sub>                                       |
| -SO <sub>2</sub> Ph  |

Claim 4. (canceled)

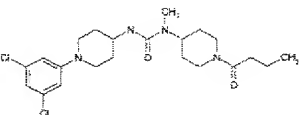
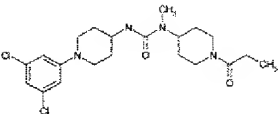
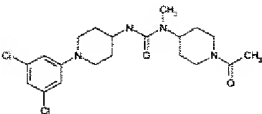
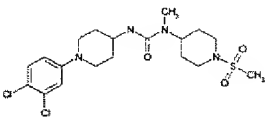
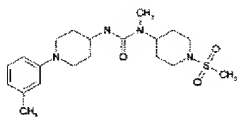
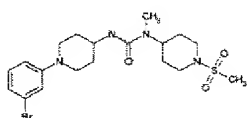
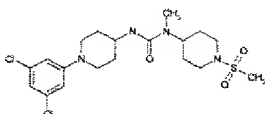
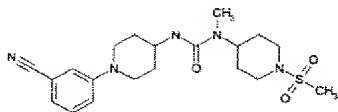
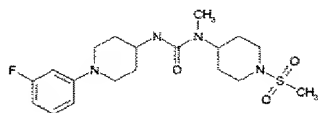
5. (currently amended) A compound of claim 1 selected from the group consisting of

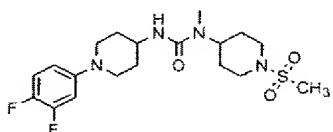
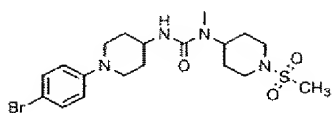
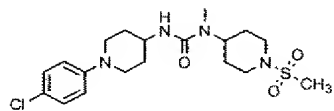
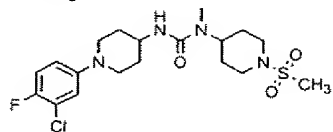
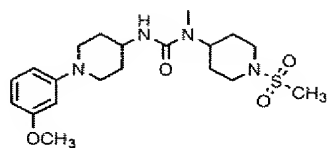
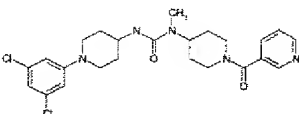
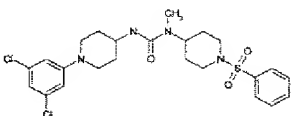
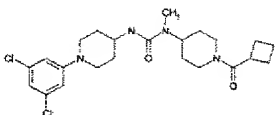
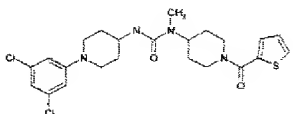
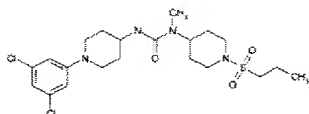
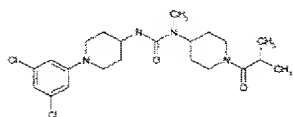


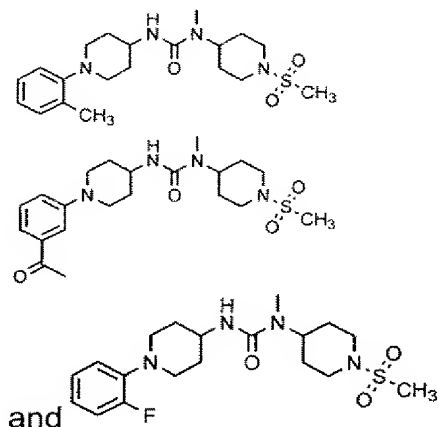
In re Application of: **STAMFORD** et al.  
Serial No.: 10/692,559  
Filed: 10/24/2003



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or a pharmaceutically acceptable salt ~~or solvate~~ of said compound.

Claim 6. (canceled)

Claim 7. (canceled)

Claim 8. (canceled)

9. (original) A pharmaceutical composition comprising a therapeutically effective amount of a compound of claim 1 in combination with a pharmaceutically acceptable carrier.

10. (currently amended) A method of treating ~~a metabolic disorder,~~ **hyperphagia obesity** or diabetes comprising administering an effective amount of a compound of claim 1 to a mammal in need of such treatment.

11. (original) A pharmaceutical composition, which comprises an effective amount of a compound as, defined in claim 1 and a pharmaceutically acceptable carrier thereof.

12. (currently amended) A method of treating ~~metabolic disorders,~~ **hyperphagia obesity or diabetes** comprising administering to a mammal in need of



such treatment a therapeutically effective amount of a compound of claim 1 or a pharmaceutically acceptable salt of said compound.

Claim 13. (canceled)

Claim 14. (canceled)

Claim 15. (canceled)

Claim 16. (canceled)

Claim 17. (canceled)

Claim 18. (canceled)

Claim 19. (canceled)

20. (original) A pharmaceutical composition made by combining the compound of claim 1 and a pharmaceutically acceptable carrier therefor.

21. (original) A process for making a pharmaceutical composition comprising combining a compound of claim 1 and a pharmaceutically acceptable carrier.